

ENGINEERING CHECKS AGER 2 CLASS

AUXILIARIES (AX) PRE-UNDERWAY PHASE AGER 2

| 5811 | ANCHOR | WINDLASS (Inport | Drop Test) |
|--|------------------|------------------|------------|
| Component/Sub-Con | | Proposed | Accepted |
| | | Procedure | Procedure |
| Inspect Tech Manual Support | | | |
| Inspect PMS Support | | | |
| Inspect posted operating/safet | y instructions | | |
| and lubrication data | | | |
| Inspect fluid samples | | | |
| Inspect for proper HPU fluid l | | | |
| Inspect for proper lubrication | of mechanical | | |
| components | | | |
| Inspect Gauge Calibration | | | |
| Inspect relief valve data is pro | | | |
| Inspect all flex hoses are prop | erly tested and | | |
| labeled | | | |
| Inspect mechanical brake oper | | | |
| Inspect stroke control linkages | 3 | | |
| Inspect flange shields | | | |
| Inspect for adequate nitrogen | charge for | | |
| windlass | | | |
| Inspect speed limiter | | | |
| Inspect for adequate LP air pro | essure for chain | | |
| compressor | | | |
| Inspect capstan/wildcat brake | | | |
| mechanical brake components | (worm gear end | | |
| cap as required). | | | |
| Inspect electric brake | | | |
| Inspect filter differential indic | | | |
| Inspect HPU mechanical seal | | | |
| Test Compensating Relief Valve is properly | | | |
| set | | | |
| Test - Conduct Inport Anchor Drop test | | | |
| - Inspect Servo/Replenishment Pressures | | | |
| during wildcat operation | | | |
| - Inspect Chain Compressor operation | | | |
| - Inspect Anchor drops from the | ne hawsepipe | | |
| - Test electric brake operation | | | |

| - Inspect reduction gear lubrication (gauges/sight flows/dipsticks) | |
|---|--|
| Test crossover valve operation | |
| Test wildcat/windlass solenoid switch | |
| Test Main Relief Valve lifts correctly | |

| 5600 / 5611 | STEERING (I | nport System Ve | rification) |
|---|----------------------|-----------------------|-----------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedure |
| Inspect Tech Manual and EOS | S Support | | |
| Inspect PMS Support | | | |
| Inspect operating/safety instruc | | | |
| system/electrical wiring diagram | ns are posted | | |
| Inspect proper fluid levels | | | |
| Inspect hydraulic oil fill connec | ctions are properly | | |
| labeled | | | |
| Inspect fluid samples | | | |
| Inspect Gauge Calibration | | | |
| Inspect rudder stock grounding | straps | | |
| Inspect filter indicators | | | |
| Inspect Servo/Replenishment P | | | |
| Inspect all flex hoses are prope | | | |
| Inspect flange shields are prope | erly installed | | |
| Test N2 accumulators are property | erly charged | | |
| Test the trick wheel stops | | | |
| Inspect the crush block clearan | ces | | |
| Test the rudder follow up error | (1 deg increments at | | |
| 0 to 5 deg; 5 deg increments at | 5 to 25 deg) | | |
| Test ABT operation | | | |
| Test compensator relief valve s | ettings | | |
| Test main relief valve settings | | | |
| Test (inport) rudder swing chec | eks | | |
| Test (inport) blocking valve | | | |
| Test auxiliary emergency steering pump | | | |
| Test manual emergency steering system | | | |
| Inspect ram for scoring | | | |
| Test steering casualty alarm | | | |
| Test pump remote operation and transfer of controls | | | |
| to pilot house | | | |
| Test for static rudder split (pilo | | | |
| Test for indicator error (pilot he | ouse in control) | | |

| A-002/105-11 | EMERGENCY/SHIP'S SERVIC DIESEL GENERATORS | |
|--|--|--------------------|
| Component/Sub-Component | Proposed Procedure | Accepted Procedure |
| Inspect Engine Sump Level | | |
| Inspect Turbocharger Sump Level | | |
| Inspect Start Air Lubricator Oil Level | | |
| Inspect Governor Oil Level | | |
| Inspect Lube Oil Sample | | |
| Inspect J/W Expansion Tank Level | | |
| Inspect "Do not open access" and | | |
| Expansion Tank warning "Poison" are | | |
| posted | | |
| Inspect/test fuel valve trip | | |
| Inspect Relief Valves | | |
| Inspect Flange Shielding | | |
| Inspect For Exhaust Leaks | | |
| Inspect Filters, Strainers | | |
| Inspect Governor and Fuel Linkage for | | |
| Binding | | |
| Inspect J/W Standby Pump | | |
| Test Blow In Damper | | |
| Test pre-lube system operation | | |
| Test Jacket Water High Temp Alarm | | |
| Test Lube Oil Filter High DP Alarm | | |
| Test low lube oil pressure alarm | | |
| Test Remote Shut Down | | |
| Test Local Shut Down | | |
| Test Barring Device Interlock | | |
| Test Engine Blow Down | | |
| Test Local Pneumatic start | | |
| Test dead bus auto start | | |
| Test Overspeed Trip | | |
| Test 80% load for 15 minutes | | |
| Inspect for fuel/lube oil leaks | | |
| Inspect pyrometer operation | | |
| Inspect manometer | | |
| Inspect sea water cooling pump | | |
| Test high water/generator bearing temp | | |
| alarm | | |

| 5512 / 5513 / 5515 | LOW and MEDIU | M PRESSURE A | IR SYSTEM |
|--------------------------------------|----------------------|-----------------------|-----------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedure |
| Inspect Tech Manual and EOSS | S Support | | |
| Inspect PMS Support | | | |
| Inspect Gauge Calibration | | | |
| Inspect operating/safety instruc | tions are posted | | |
| Inspect compressor oil level and | d oil samples | | |
| Test compressor pressures and | temperatures | | |
| Test compressor capacity contr | ol system | | |
| Inspect compressor belt conditi | | | |
| Test compressor auto control ar | nd safety switches | | |
| a. Operational control switch | ches (115/120/125) | | |
| b. Low oil pressure | | | |
| c. High discharge pressure | | | |
| d. High air and water temp | | | |
| Inspect all relief valve testing is | s within periodicity | | |
| Inspect location of intake/vent | 11 1 | | |
| Inspect receiver flask certification | ion | | |
| Test priority valve operation | | | |
| Inspect sea water cooling system | m | | |
| Inspect 50/50 mixture of ethyle | ne glycol | | |
| Test type I and type II dehydrat | tor operation | | |
| a. Gauge calibration | | | |
| b. Tower operation | | | |
| c. Purge air pressure | | | |
| d. Automatic drain operation | | | |
| e. Dew point | | | |
| f. Inspect PMS and Tech N | Manual support | | |

| 5511 / 5515 | HIGH PRES | SURE AIR SYS | TEM |
|----------------------------------|------------------------|--------------|-----------|
| Component/Sub-Component | | Proposed | Accepted |
| | | Procedure | Procedure |
| Inspect Tech Manual and EO | SS Support | | |
| Inspect PMS Support | | | |
| Inspect Gauge Calibration | | | |
| Inspect operating/safety instr | uctions are posted | | |
| Inspect compressor oil level a | and oil samples | | |
| Test compressor auto control | and safety switches | | |
| a. Start / Stop switch | | | |
| b. Low oil pressure switch | ch | | |
| c. Jacket water temp swi | tch | | |
| d. Compressor temp/pres | sure monitor operation | | |
| Inspect compressor pressures | and temperatures | | |
| Inspect compressor drive belt | t condition | | |
| Inspect condensate monitorin | g/drain system | | |
| Inspect all flex hoses are proj | | | |
| Inspect all relief valve testing | | | |
| Inspect HP air flask certificat | ion | | |
| Inspect sea water cooling sys | | | |
| Inspect air intake/ventilation | 1 1 V | | |
| Inspect all HP/LP air reducin | | | |
| Inspect fresh water pump belts | | | |
| Inspect capacity | | | |
| Inspect oil wipers | | | |
| Inspect pressure regulator valve | | | |
| Inspect 50/50 mixture of ethy | lene glycol | | |
| Inspect seals for oil leaks | | | |

| 5210 | FIRE PUMPS (| ELECTRIC and | STEAM) |
|--|---------------------|-----------------------|--------------------|
| Component/Sub-C | omponent | Proposed Procedure | Accepted Procedure |
| Inspect Tech Manual and EOS | S Support | | |
| Inspect PMS Support | | | |
| Inspect Gauge Calibration | | | |
| Inspect Transducer Calibration | | | |
| Inspect Coupling Guard | | | |
| Inspect relief valves are within | periodicity | | |
| Test remote start/stop functions | } | | |
| Test local start/stop functions | | | |
| Inspect pump operation/design | discharge pressure, | | |
| unusual noise, bearing temps, e | tc. | | |
| Test the over speed trip (STEA | M) | | |
| Test the speed limiting governo | | | |
| Test the turbine auxiliary lube | | | |
| automatic start switch operation | n (STEAM) | | |
| Inspect lube oil filter indication | s and oil level | | |
| (STEAM) | | | |
| Test combination exhaust and r | | | |
| Inspect the packing and mechan | nical seal leakage | | |
| Inspect for ferrous fasteners | | | |
| Inspect the resilient mounts | | | |
| Inspect condition of expansion joints | | | |
| Inspect all flex hoses are properly tested/labeled | | | |
| Inspect piping lagging | | | |
| Inspect grounding straps | | | |
| Test remote operated suction/discharge valves | | | |
| Inspect the suction strainer | | | |

| 5240 | SEAWATE | R SERVICE PUM | IPS |
|--|-------------------|-----------------------|---------------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedur e |
| Inspect Tech Manual and EOSS | Support | | |
| Inspect PMS Support | | | |
| Inspect Gauge Calibration | | | |
| Inspect Transducer Calibration | | | |
| Inspect Coupling Guard | | | |
| Test remote start/stop functions | | | |
| Test local start/stop functions | | | |
| Inspect pump operation/design discharge pressure, unusual noise, bearing temps, etc. | | | |
| Inspect packing and mechanical | seal leakage | | |
| Inspect for ferrous fasteners | | | |
| Inspect foundation and resilient | mounts | | |
| Inspect condition of expansion | joints | | |
| Inspect all flex hoses are proper | ly tested/labeled | | |
| Inspect piping lagging | | | |
| Inspect grounding straps | | | |
| Test remote operated suction/discharge valves | | | |
| Inspect the suction strainer | | | |
| Test the firemain to seawater re operation, condition and relief v | | | |

| 5140 | AIR COND | ITIONING PLA | NTS |
|--|-----------------------|--------------|-----------|
| Component/Sub- | Component | Proposed | Accepted |
| • | • | Procedure | Procedure |
| Inspect EPA certifications | | | |
| Inspect Tech Manual and EO | SS Support | | |
| Inspect PMS Support | • • | | |
| Inspect Gauge Calibration | | | |
| Inspect operating/safety instru | uctions are posted | | |
| Inspect compressor oil level a | and oil samples | | |
| Inspect warning at entrance (| Freon usage) posted | | |
| Inspect Refrigerant logs | | | |
| Test halocarbon monitor oper | ration | | |
| Test capacity control system | operation | | |
| Test calibration of safety shur | tdowns/alarms | | |
| a. HP/LP pressure switch | ies | | |
| b. C/W, S/W flow/press/ | temp switches | | |
| c. Low refrigerant temps | switch | | |
| d. Low oil pressure switch | h | | |
| Inspect moisture indicators | | | |
| Test compressor operation (p | arameters, suct/disch | | |
| valves) | | | |
| Test for leaks (oil/freon/water | r) | | |
| Inspect chilled water pump | | | |
| a. suction valve | | | |
| b. discharge valve | | | |
| c. mechanical seal | | | |
| Inspect chilled water expansion | on tank | | |
| a. Proper operating level | | | |
| b. Filling pipe air gap | | | |
| c. Relief valves and vac | uum breakers | | |
| d. Hose disconnects and | warning sign | | |
| Test PPU | | | |
| Inspect recovery unit (Invented | ory Item) | | |
| Inspect for available vacuum pump | | | |
| Inspect sea water system | | | |
| a. Pump operation | | | |
| b. Zincs and nylon tube inserts present | | | |
| c. Condenser header condition | | | |
| d. Seawater Regulating valve | | | |
| Inspect motor controller | | | |
| Inspect coupling guard | | | |
| Inspect resilient mounts | | | |

| Inspect flex hoses | | |
|--------------------|--|--|
| | | |

AUXILIARIES (AX) UNDERWAY DEMO PHASE

| 5811 | ANCHOR WINDLASS DROP AND RETRIEVAL DEMONSTRATION | | |
|-----------------------------------|--|-----------------------|--------------------|
| Component/Sub-Con | nponent | Proposed Procedure | Accepted Procedure |
| Test – Conduct Anchor Drop a test | and Retrieval | | |
| | ect Servo/Replenishment and Main Pressures during wildcat operation | | |
| - Inspect Anchor drops from the | ne hawsepipe | | |

| 5600 / 5611 | STEERING | DEMONSTRA | TION |
|---|-----------------------|-----------|-----------|
| Component/Sub-C | omponent | Proposed | Accepted |
| | | Procedure | Procedure |
| Inspect proper fluid levels | | | |
| Inspect correct Servo/Replenish | nment pressures | | |
| Test – Demonstrate timed rudd | er swing checks/ | | |
| blocking valve test Ahead (as per provided | | | |
| procedure) | | | |
| Test - Demonstrate timed rudder swing checks/ | | | |
| blocking valve test Astern (as per provided | | | |
| procedure) | | | |
| Inspect for dynamic rudder spli | t from helm indicator | | |

| 5331 | WATER HEATERS | | |
|--|--------------------|-----------------------|--------------------|
| Component/Sub- | -Component | Proposed Procedure | Accepted Procedure |
| Inspect Tech Manual and EO | SS Support | | |
| Inspect PMS Support | | | |
| Inspect list of heaters onboar services (berthing/laundry/ga | | | |
| Inspect gauge calibration | | | |
| Inspect outlet temp at heater | (verify operation) | | |
| Inspect relief valve test data | | | |
| Inspect relief valve drain pipe | ing | | |
| Inspect cold water inlet pipe | for check valve | | |
| Test high temp switch setting | | | |
| Test high temp switch warning | ng light | | |
| Inspect lagging condition | | | |
| Inspect for steam / water leaks | | | |
| Inspect Temp Reg Valve for locking device | | | |
| Inspect heater foundation | | | - |
| Test water temp at basin/spig | ot | | |

| 5351 | | ER and COPPE STEAM PIPING | |
|--|-------------|------------------------------|--------------------|
| Component/Sub-Compo | nent | Proposed Procedure | Accepted Procedure |
| Inspect Gauge calibration | | | |
| Inspect PMS Support | | | |
| Inspect warning placard posted – war | rning bleed | | |
| pressure before disconnecting | | | |
| Inspect piping/valve condition and or | peration | | |
| Inspect protective cover | | | |
| Inspect relief valve for test data | | | |
| Inspect overall area preservation | | | |
| | | | |
| Inspect ship has reviewed NAVSEA | Wash DC R | | |
| 130557Z FEB 01 concerning copper | piping | | |
| Inspect the ship has established an inspection | | | |
| program IAW NAVSEA message | | | |
| Inspect - Conduct a walkthrough of all copper | | | |
| service steam piping to check for leaks IAW | | | |
| NAVSEA message | | | |

| | | TER PRODUCT ATION – REVE | |
|--|------------------|-----------------------------|-----------|
| Component/Sub-Compon | ent | Proposed | Accepted |
| | | Procedure | Procedure |
| Inspect Tech Manual Support | | | |
| Inspect PMS Support | | | |
| Inspect relief valves are within period | icity | | |
| Inspect HP pump oil level | | | |
| Inspect flexible hose condition and tes | st tag | | |
| Test salinity dump valves | | | |
| Test salinity panel | | | |
| Inspect Accumulator Pressure | | | |
| Test the operation of the product and brine | | | |
| flowmeters | | | |
| Test – Demonstrate 80% water produc | ction capability | | |
| during the 4 Hour Water Production I | Demonstration | | |
| - Inspect RO to ensure the unit has no | ot been set to | | |
| produce above maximum recommende | | | |
| (discharge pressure setting, production | | | |
| injection temperature diagram curve a | | | |
| - Inspect the operating panel for alarm | | | |
| conditions. | | | |
| - Inspect 3 and 20 micron filter differential pressure | | | |
| - Inspect all fittings and connections for leaks | | | |
| - Inspect demineralizer operation | | | |
| Inspect freshwater flush | | | |

| 5311 | WATER PRODUCTION DEMONSTRATION – FLASH TYPE EVAPS | | |
|---|--|-----------------------|--------------------|
| Component/Sub-Co | mponent | Proposed Procedure | Accepted Procedure |
| Inspect PMS and Tech Manual s | upport | | |
| Inspect gauge calibration | | | |
| Test flow meter | | | |
| Inspect evaporator shell (sight gland scale buildup) | lasses, diffuser cap | | |
| Test salinity dump valves | | | |
| Test interlock device between powater valves | otable water and feed | | |
| Inspect feed pump (labeled, packing gland, foundation, seal / gland cavity) | | | |
| Inspect brine pump (labeled, pac | king gland, | | |
| foundation, seal / gland cavity) | | | |
| Inspect distillate pump (labeled, foundation, seal / gland cavity) | packing gland, | | |
| Inspect brine pump (labeled, pac foundation, seal / gland cavity) | king gland, | | |
| Inspect heater drain pump (labeled, packing gland, foundation, seal / gland cavity) | | | |
| Inspect flexible hose condition and test tag | | | |
| Inspect feedwater strainer (foundation and basket) | | | |
| Inspect pipe labeling and lagging condition | | | |
| Test – Demonstrate 80% water p during the 4 Hour Water Produc | | | |

| 8543 | | DUMBWAITER | |
|--|------------------|-----------------------|--------------------|
| Component/Sub-Comp | onent | Proposed Procedure | Accepted Procedure |
| Inspect Tech Manual and EOSS Su | pport | | |
| Inspect PMS Support | | | |
| Inspect posted operating/safety inst | ructions at each | | |
| station | | | |
| Inspect posted lubrication chart at to | op station | | |
| Inspect trunk bi-parting doors | | | |
| Inspect machinery access cover bol | ts & nuts | | |
| Inspect machinery oil level | | | |
| Inspect hoist machinery mounting h | nardware | | |
| Inspect hoist drum | | | |
| Inspect hoist wire rope and end fitti | ings | | |
| Test slack rope device and limit sw | itch | | |
| Test the hoist brake | | | |
| Test the up over travel limit switch | | | |
| Test the up deck level limit switch | | | |
| Test trunk bi-parting door limit swi | tch | | |
| Inspect car broken rope device | | | |
| Inspect car bi-parting door assembl | y | | |
| Inspect car for missing components | | | |
| Test lower level trunk bi-parting do | ors and limit | | |
| switch | | | |
| Test down over travel limit switch | | | |
| Test down level limit switch | | | |
| Inspect trunk buffer springs | | | |
| Test E-call and sound powered pho | ne system when | | |
| installed | | | |
| Inspect clean out cover mounting ha | | | |
| Inspect motor controller for loose le | | | |
| placards, grounds and correct fuses | | | |
| Inspect dumbwaiter trunk for preser | | | |
| cleanliness | | | |
| Inspect guide rails | | | |
| Test each control station E-stop but | ton | | |

| 8543 PAC | | CKAGE CONVEY | OR |
|---|-------------------------|-----------------------|-----------|
| Component/Sub-Compone | Component/Sub-Component | | Accepted |
| | | Proposed Procedure | Procedure |
| Inspect Tech Manual and EOSS Suppo | rt | | |
| Inspect PMS Support | | | |
| Inspect posted operating/safety instruct | ions (two man | | |
| rule/ do not ride) at each station | | | |
| Inspect posted lubrication chart at top s | tation | | |
| Test for audible warning when starting | conveyor | | |
| Inspect that all station doors are locked | | | |
| Inspect that all station controllers are lo | ocked | | |
| Test door interlock system | | | |
| Inspect load/unloader at each station | | | |
| Test door cannot close when loader/unl | loader is in | | |
| horizontal or 30 deg inclined position | | | |
| Test loader/unloader down interlock sw | vitch at each | | |
| station below upper most level | | | |
| Test jam limit switch at each station | | | |
| Inspect safety shields are properly insta | ılled | | |
| Test up-over travel switch/device opera | ation | | |
| Test clean out door interlock switch if a | applicable | | |
| Test down overtravel device and switch | 1 | | |
| Test indexing feature | | | |
| Test E-stop and run/stop buttons at all s | stations | | |
| Inspect proper florescent lighting at each | ch station | | |
| Inspect trunk shielding and mounting h | ardware | | |
| Inspect trunk guide rails | | | |
| Inspect conveyor trunk for preservation | /cleanliness | | |
| Inspect all carrier trays are installed and | d tight | | |
| Test all station growlers and phone circ | cuits are | | |
| functional and headsets are present | | | |
| Inspect conveyor has been load tested v | within the last | | |
| five years to include weight test data | | | |
| Inspect speed reducer is filled to proper | | | |
| Inspect drive, driven and carrier chains | | | |
| tensioned | | | |
| Test bite panel for correct components | | | |
| operation | | | |
| Inspect motor controller for loose leads | s, posted | | |
| placards, grounds and correct fuses | | | |
| Inspect drive machinery for missing/loc | ose | | |
| components | | | |

| 5161 REFRIG | | GERATION PLA | ANTS |
|---|--|-----------------------|-----------------------|
| Components/Sub-Con | nponents | Proposed Procedure | Accepted Procedure |
| Inspect EPA certifications | | | |
| Inspect Tech Manual and EOSS S | Support | | |
| Inspect PMS Support | | | |
| Inspect Gauge Calibration | | | |
| Inspect operating/safety instruction | ons are posted | | |
| Inspect compressor oil level and | oil samples | | |
| Inspect warning at entrance (Free | n usage) posted | | |
| Inspect Refrigerant logs | | | |
| Test halocarbon monitor opera | tion | | |
| Test capacity control system oper | ration (vent plug) | | |
| Test calibration of alarm / shutdo | wns | | |
| a. HP / LP pressure switches | } | | |
| b. Sea water flow / pressure | switch | | |
| Test compressor operation (param | neters, | | |
| suction/discharge valves) | | | |
| Inspect for piping suppressors | | | |
| Inspect for leaks (oil/freon/sea wa | ater) | | |
| Inspect refrigerant recovery syste | m/vacuum pumps | | |
| Inspect sea water system (pump of | Inspect sea water system (pump operation, zincs, | | |
| nylon tube inserts, and condenser header) | | | |
| Test chill/freezer boxes for fan operation, lighting, | | | |
| coil condition and curtains | | | |
| Inspect ventilation (flow/location | /indicators and | | |
| alarms | | | |

| 6641 F | | AN ROOMS | |
|---|----------------------|-----------------------|--------------------|
| Component/Sub-Cor | nponent | Proposed Procedure | Accepted Procedure |
| Inspect deck condition | | | |
| - No standing water | | | |
| - Deck rusted / exfoliated | | | |
| - Deck drain not installed | | | |
| - Deck drain missing, not secured or inoperative | l within deck socket | | |
| Inspect deck/bulkheads have no p | painted over rust | | |
| Inspect lighting is operative and of | | | |
| Inspect adequate lighting present | | | |
| Inspect vent duct condition | т врисс | | |
| - Access covers present | | | |
| - Access cover fasteners not ruste | ed/missing | | |
| - Duct interior is clean | | | |
| Inspect correct vent/piping system | n labeling | | |
| Inspect fan motor installed correct | etly (flow) | | |
| Inspect filters are clean and can b | | | |
| Inspect filter DP gauge is operation | | | |
| Inspect vent heating element is of | perative and not | | |
| deteriorated | | | |
| Inspect cooling coils are clean | | | |
| Inspect thermostatic controls are connected and operational | calibrated, | | |
| Inspect the cooling coil drain is p | iped to the deck | | |
| drain and is not clogged | | | |
| Inspect the proper color coding o | | | |
| Inspect that all hand wheels are p | | | |
| Inspect for damaged / missing lagging | | | |
| Test the C/W or steam solenoids are operational | | | |
| Inspect for chilled water / steam leaks | | | |
| Inspect for bull's eye and CCOL | * | | |
| Inspect for any unauthorized stov | | | |
| Inspect for any unauthorized flan | nmables | | |
| Inspect the filter cleaning shop | | | |

| 5331 | POTAB | LE WATER PU | MPS |
|--|------------------|-------------|-----------|
| Component/Sub-Comp | ponent | Proposed | Accepted |
| | | Procedure | Procedure |
| Inspect Tech Manual and EOSS Su | upport | | |
| Inspect PMS Support | | | |
| Inspect Gauge Calibration | | | |
| Inspect Transducer Calibration | | | |
| Inspect Coupling Guard | | | |
| Test local start/stop functions | | | |
| Inspect pump operation/design disc | charge pressure, | | |
| unusual noise, bearing temps, etc. | | | |
| Inspect packing and mechanical se | al leakage | | |
| Inspect for ferrous fasteners | | | |
| Inspect foundation and resilient mounts | | | |
| Inspect all flex hoses are properly tested/labeled | | | |
| Inspect grounding straps | | | |

ELECTRICAL (EL) PRE-UNDERWAY PHASE AGER 2

| | SHIPS SERVICE DIESEL GENERATORS | | | |
|--|---------------------------------|-----------------------|-----------------------|--|
| COMPONENT/SYSTEM | | PROPOSED PROCEDURE | ACCEPTED PROCEDURE | |
| Test Dead Bus Pick-Up | Start | | | |
| Test reverse pov | ver relays | | | |
| Test parallel ope | eration | | | |
| Test Auto/Manu Shedding | ial Load | | | |
| | | 400 HERTZ DISTRIBUTIO | ON SYSTEM | |
| | | (MOTOR GENERA | TOR) | |
| COMPONENT/SYSTEM | | PROPOSED PROCEDURE | ACCEPTED PROCEDURE | |
| Test split and parallel operation | | | | |
| | TELL-TAL | E PANEL/NAVIGATION S | IGNAL LIGHT PANEL | |
| COMPONENT | T/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE | |
| Test navigationa panel | al lighting | | | |
| Test signal light panel. | | | | |
| Measure insulatives resistance of electricuits | | | | |
| | | ANNOUNCING SY | STEMS | |
| COMPONENT/SYSTEM | | PROPOSED PROCEDURE | ACCEPTED PROCEDURE | |

| Test general, cher collision alarms fi stations | | | |
|---|-------------|-----------------------|-----------------------|
| Test 1MC from al | l stations | | |
| Test 1 MC Oscillator.Amplif | ier | | |
| Test 6MC operati | on | | |
| Test 21MC operation | tion | | |
| | | DEGAUSSING SY | YSTEM |
| COMPONENT | SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Conduct linearity | test | | |
| Conduct on line g | round test. | | |
| Inspect degaussin | g folder | | |
| | AU | TOMATIC BUS TRANSF | ER EQUIPMENT |
| COMPONENT/SYSTEM | | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Test all main and space vital power lighting ABTs | | | |
| | | EVAPORATO | ORS |
| COMPONENT | SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Test dump valve of | operation | | |
| | EVAPORATORS | | |
| COMPONENT/SYSTEM | | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Test alarm setting | s | | |

| | | WIND INDICATING SYSTEM | | |
|---|----------------------------------|------------------------|-----------------------|--|
| COMPONENT/SYSTEM | | PROPOSED PROCEDURE | ACCEPTED PROCEDURE | |
| Test System For Proper Operation | | | | |
| | ELECT | RICAL PLANT CONTRO | L CONSOLE (EPCC) | |
| COMPONEN | T/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE | |
| Test Console I Alarms | Test Console Lamps and Alarms | | | |
| | | THERMAL IMAGING | SURVEY | |
| COMPONENT/SYSTEM | | PROPOSED PROCEDURE | ACCEPTED PROCEDURE | |
| Commence thermal imaging throughout the ship | | | | |
| NOTE: Engineering vital equipment for getting underway will be surveyed first. Any controller, distribution fuse box, power panel and ABT surveyed above ambient temperature of 40 degrees centigrade and above must be repaired prior to getting underway. | | | | |

ELECTRICAL (EL) UNDERWAY PHASE AGER 2

NOTE: Electrical Underway Checks Consist Mainly Of Space Walk-Through
Throughout The Ship And Thermal Imaging Survey
In each space inspect the following if applicable:

(INSPECT) ELECTRICAL SAFETY

| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
|---|-----------------------|-----------------------|
| Were flat irons a high-grade commercial type with a three pronged cord? | | |
| Were Ironing Board Stations in berthing space modified to remove spotlight and fill the access hole? Ensure irons are not hardwired. | | |
| Have electronic and electrical shorting probes been modified by installing a nylon screw in the end of the probe and soldering the clip to the conductor? | | |
| Are portable tools/devices not stamped "Double Insulated" or equipped with a three pronged cord? | | |
| Were Hospital grade plugs | | |
| used on portable equipment? | (INSPECT) FUSE 1 | DOVEC |
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Are fuses pulled from designated circuits without danger tags affixed? | | |
| Are there loose or missing locking nuts or gear adrift? | | |
| Are circuits properly labeled for easy identification? | | |
| Are there any bent, twisted, misaligned, or broken fuse clips? | | |
| Is the interior rusty or dirty? | | |
| Are fuses of the correct amperage and voltage installed? | | |

| | (INSPECT) FUSE BOXES | | |
|--|-----------------------|-----------------------|--|
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE | |
| Are circuits fed from one set of fuses (except battle lantern circuits) multiple? | | | |
| Are fuse clips phosphor- bronze instead of silver plated? Were door hinges broken? | | | |
| Are non-silver ferruled fuses installed? | | | |
| Are SHAWMUT "AMP-TRAP" current limiters installed in place of fuses? | | | |
| Is clearance provided to permit complete accessibility for maintenance, repair, renewal of fuses, and testing? | | | |
| | (INSPECT) POWER | PANELS | |
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE | |
| Were access holes left in panels after removal of circuit breakers? | | | |
| Do labels specify the proper information? | | | |
| Depress ground detector push buttons, were any grounds indicated? | | | |
| Do Breaker ratings match the circuit label current rating? | | | |

| Are multi-phase circuits missing breaker connecting handles? | | |
|---|-----------------------|-----------------------|
| Were power panels located inside galley spaces? | | |
| Is clearance provided to permit complete accessibility? | | |
| | (INSPECT) MOTOR CO | NTROLLERS |
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Were interiors dirty, rusty, deteriorated, or contained gear adrift? | | |
| Were wiring diagrams, schematics or overload heater tables missing? | | |
| Was controller electrical wiring properly banded? | | |
| Were Start, Stop, "Emergency Run" or Reset buttons seized, missing or inoperative? | | |
| Were rubber boots cracked, torn or missing? | | |
| Were overload relay heaters properly sized and adjusted to provide adequate protection for the motor? | | |
| Were switches protected against inadvertent activation? | | |
| Were controllers with multiple power sources properly labeled? | | |

| | (INSPECT) MOTOR CONTROLLERS | | |
|--|-----------------------------|-----------------------|-----------------------|
| COMPONENT | /SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Were controllers operating stations labeled? | | | |
| Is clearance provi permit complete a for operation, marepair, renewal of testing? | accessibility intenance, | | |
| | | (INSPECT) LIGI | HTING |
| COMPONENT | /SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Were darken ship operative and adjuproperly? | | | |
| Were light fixture and covers secure | | | |
| Were over-sized l installed in lightin | | | |
| Were light fixture lenses, protective faceplates? | guards, or | | |
| Did diesel module adequate lighting | | | |
| Were spray-tight adequately protec water intrusion? | | | |
| Was bunk lighting hanging, or not rot through the inside stanchions? | outed | | |

| Were plastic-case reflectors and tog properly grounder | gle switches | | |
|--|---|-----------------------|-----------------------|
| | | (INSPECT) BATTLE | LANTERNS |
| COMPONENT | /SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Were relay-opera installed in suffic | | | |
| Are lanterns insta suitable bracket a prevent removal o | ssemblies to of lantern? | | |
| Were lanterns inc | es and relay | | |
| frames grounded? | ? | (INSPECT) CAF | BLING |
| | | | |
| COMPONENT | /SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Was PVC cabling (new construction | g installed n only)? | | |
| Was PVC cabling | g installed n only)? | | |
| Was PVC cabling (new construction Were dead-ended properly | g installed n only)? cables ated? | | |
| Was PVC cabling (new construction Were dead-ended properly identified/termina Were useless or | g installed n only)? I cables ated? improperly s removed? errly or were | | |
| Was PVC cabling (new construction Were dead-ended properly identified/termina) Were useless or installed cables Was cabling prop supported, routed | g installed nonly)? I cables ated? improperly removed? berly or were bing utilized? | | |

| | (INSPECT) CABLING | | |
|---|-------------------|---------------------------------|-----------------------|
| COMPONENT | /SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Were cables prote being handholds of stepped on? | | | |
| Was cabling run t beams without the chaffing rings? | | | |
| Was cabling runn metal partitions ed grommets? | | | |
| Was cabling on wand engineering s deteriorated? | | | |
| Were cable stuffing properly assemble | | | |
| Were multiple cal through one stuffi | | | |
| Were multi-cable installed in Flamm Storerooms? | | | |
| | (I) | (INSPECT) CASUALTY POWER CABLES | |
| COMPONENT | /SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Were cable ends parterminated? | properly | | |
| Were cables deter age, heat, and hur | | | |
| Were normally en power terminals l | | | |

| Were racks properly identified as to number/length of cables assigned to the rack? Is there a label attached at the end of the cable to indicate the length and stowage rack number? | | |
|---|-----------------|---------|
| Are cable leads properly identified for phase identification? | | |
| Was miscellaneous gear stowed on casualty cable racks? | | |
| Were cable ferrules missing or heavily oxidized? | | |
| Was an improper number/length of cable installed on a cable rack? | | |
| Were wrenches missing from terminals? | | |
| Were covers installed on power terminals? | | |
| | (INSPECT) WORKI | BENCHES |

| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
|---|-----------------------|-----------------------|
| Was the electrical workbench properly installed, to include: - Front panel, Side Panel, Back panel and Kneehole Insulation. - Disconnect Switch properly installed and labeled. - 48-inch ground strap for every 4 feet of workbench. - 5KVA isolation transformer installed. - Safety Placards. | | |
| | (INSPECT) BATTERY | LOCKERS |
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Was a Battery Log maintained? Test electrical interlock between exhaust ventilation and battery charger? Are Alkaline and Lead Acid Batteries being serviced in the same facility? Is each locker provided with: - Rubber Gloves and Aprons. - Goggles. - Two battery fillers. - Two battery test sets. - One soda water container. | | |
| Does the locker contain an eye wash station and a deluge shower? | | |

| Are battery storage racks greater than 12 inches between tiers? | | |
|--|-----------------------|-----------------------|
| Were battery hold-down clamps provided? | | |
| Are Acids stored in appropriate protective containers? | | |
| Are battery charger plugs and jacks marked NEG. and POS.? | | |
| (II | NSPECT / TEST) SHORE | POWER SYSTEM |
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Is shore power being properly rigged? | | |
| Did shore power shunt trip interlocks trip its associated breakers when tested? | | |
| Was shore power system cabling between the receptacles and the ship's switchboard insulation resistance within EOSS or PMS limits? | | |
| Were shore power indicating lights operative, white in color, and all screws installed? | | |
| mstaned? | | |

| | ı | |
|------------------------------|-----------------------|-----------------------|
| Does the shore power system | | |
| meet the current standards: | | |
| - Have a Viking | | |
| Connector System. | | |
| - Have AQB-LF 400 | | |
| Amp Circuit Breaker | | |
| with shunt trip. | | |
| - Have phase sequencing | | |
| and phase orientation | | |
| devices. | | |
| - Have power available | | |
| lights at switchboard | | |
| and shore power | | |
| connection box. | | |
| Have installed ammeter and | | |
| selector switch to monitor | | |
| total shore power current. | | |
| (| INSPECT) BUS TRANSFI | ER EQUIPMENT |
| COMPONENT/SYSTEM | PROPOSED | ACCEPTED |
| | PROCEDURE | PROCEDURE |
| Were Automatic Bus Transfer | | |
| Devices operating properly? | | |
| | | |
| (| INSPECT) BUS TRANSFI | ER EQUIPMENT |
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Were ABT's installed for the | | |
| following: | | |
| - Emergency Lighting. | | |
| - IC Switchboard and | | |
| panels. | | |
| - Steering power panel. | | |
| - Pumps associated with | | |
| the main and auxiliary | | |
| machinery plant having | | |
| Low Voltage Release | | |
| (LVR) control. | | |
| - Fire pumps. | | |
| - Fire extinguishing | | |
| auxiliaries and | | |
| controls. | | |
| | | |

| Did ASCO ABT transfer switches have an electrical charge on the metal screw on | | |
|--|-----------------------|-----------------------|
| the manual operator? | | |
| Was the sliding interlock on | | |
| manual bus transfer switches | | |
| effective at preventing both | | |
| breakers from being closed at | | |
| the same time? | | |
| Are feeder circuit breaker | | |
| megger holes blanked off? | | |
| Were Normal/Alternate | | |
| source indicating lights | | |
| operative? | | |
| (INSPEC | CT) ELECTRICAL DISTR | RIBUTION EQUIPMENT |
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Was electrical distribution | | |
| equipment securely mounted? | | |
| Electrical distribution | | |
| equipment have loose or | | |
| missing covers? | | |
| Were control knobs or fasteners missing from | | |
| electrical equipment? | | |
| Was electrical equipment | | |
| protected from water | | |
| intrusion? | | |
| Is electrical properly mounted | | |
| or was it suspended solely by | | |
| electrical cables? | | |
| Were 440 multipurpose | | |
| outlets properly phased? | | |

| Did Standard Navy | | |
|---------------------------------|-----------------------|-----------------------|
| Receptacles (SNR) and Multi- | | |
| Purpose Outlets (MPO) have | | |
| an interlock switch or was the | | |
| switch function such that the | | |
| plug could not be removed | | |
| from an energized receptacle? | | |
| Were electrical receptacles | | |
| broken or damaged? | | |
| Were 400HZ AC, 60HZ AC, | | |
| and DC convenience outlets | | |
| labeled to prevent equipment | | |
| being used with the wrong | | |
| frequency? | | |
| | (INSPECT) MO | TORS |
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Were motor foundations | | |
| properly preserved? | | |
| Was resilient mounted | | |
| electrical equipment grounded | | |
| to the ships hull through | | |
| ground straps? | | |
| Did electrical rotating | | |
| machinery have ball check | | |
| grease fittings (zerk fittings) | | |
| installed? | | |
| Were coupling, belt, or chain | | |
| guards effective? | | |
| 1) | NSPECT) MISCELLANEO | OUS EQUIPMENT |
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Is permanently mounted | | |
| electrical equipment | | |
| hardwired to the ships | | |
| electrical system? | | |
| Is hardwired electrical | | |
| equipment permanently | | |
| mounted? | | |
| | | |

| Was more than 1 multi- | |
|--------------------------------|--|
| purpose power strip | |
| connected to one isolated | |
| receptacle circuit? | |
| Is electrical equipment | |
| mounted on non-conducted | |
| surfaces properly grounded? | |
| Were Surge Protectors of the | |
| approved type? | |
| Are portable electric device | |
| power cords properly tinned? | |
| Are permanent-type safety | |
| precautions, operating | |
| instructions, high voltage | |
| warning signs, and | |
| resuscitation instructions | |
| installed where required? | |
| Is stowage in the electrical | |
| division adequate? | |
| Did electrical connection | |
| boxes have knockouts pushed | |
| in leaving access holes In the | |
| side? | |
| Are non-watertight | |
| connection boxes being used | |
| in engineering spaces? | |
| Was rubber matting oil | |
| soaked, cracked, punctured, | |
| perforated or had imbedded | |
| metal or conductive | |
| Particles? | |

| Did varnish Dip Tank meet | | |
|--------------------------------|---|--|
| installation specifications? | | |
| - No heat source within | | |
| eight feet of tank. | | |
| - Tank was fitted with | | |
| explosion proof | | |
| dedicated exhaust | | |
| ventilation system. | | |
| - Space ambient | | |
| temperature was below | | |
| the | | |
| flashpoint of varnish (78 | | |
| degrees Fahrenheit). | | |
| A portable AFFF fire | | |
| extinguisher was installed | | |
| Was accommodation ladder | | |
| lighting of the proper typed? | | |
| (Not to use dress ship lights | | |
| attached to gangway | | |
| handrails)? | | |
| Did dress ship lights have | | |
| broken, missing, or incorrect | | |
| guards? | | |
| Were dress ship light | | |
| receptacles labeled "Dress | | |
| Ship Light Streamers. Not to | | |
| be used for any other | | |
| purpose"? | | |
| Were panel switches | | |
| controlling circuits that are | | |
| de-energized during darkened | | |
| ship operation marked | | |
| DARKENED SHIP? | | |
| Did engine room control | | |
| console have three sources of | | |
| power (normal, alternate, no- | | |
| break)? | | |
| Were bulkhead mounted | | |
| electric heaters provided with | | |
| protective screens? | | |
| Were Electrical/IC test panels | | |
| degraded or inoperable? | | |
| acgraded of moperatie: | l | |

| have a blade guard which would permit personnel to come in contact with the rotating blades? (INS COMPONENT/SYSTEM Was the installed Cathodic Protection System operative and adjusted IAW PMS? Were the rudder grounding straps made of 1-1/2 inch Wide braided copper and brazed to the rudder stock and the hull? Were shaft grounding brushes correctly installed? Shaft grounding brushes exhibit full contact with the slip ring? Was brush rigging correctly installed? COMPONENT/SYSTEM | PROPOSED PROCEDURE PECT) CATHODIC PRO PROPOSED PROCEDURE | ACCEPTED PROCEDURE TECTION SYSTEM ACCEPTED PROCEDURE |
|---|---|--|
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| exhibit full contact with the slip ring? Was brush rigging correctly installed? COMPONENT/SYSTEM | | |
| slip ring? Was brush rigging correctly installed? COMPONENT/SYSTEM | | |
| Was brush rigging correctly installed? COMPONENT/SYSTEM | | |
| installed? COMPONENT/SYSTEM | | |
| COMPONENT/SYSTEM | | |
| | INSPECT) SHIP TELEP | HONE SYSTEM |
| W/oo the constant commeliable days | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Was the system unreliable due to unresolved software or | | |
| hardware deficiencies? | | |
| (INSPEC | T) SOUND POWERED T | TELEPHONE SYSTEMS |
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Were Sound Powered | | |
| Telephone Circuit Amplifiers | | |
| missing or inoperative? | | |

| Were any Sound Powered Circuits below 50,000 ohms resistance to ground? | | |
|---|-----------------------|-----------------------|
| Were Sound Powered Call Signal Stations (growlers) inoperative, corroded, damaged or missing parts? | | |
| Were Sound Powered Jackboxes improperly labele corroded, damaged, or missing parts? | d, | |
| | (TEST / INSPECT) ALA | RM SYSTEMS |
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Test alarm switchboards and panels. | 1 | |
| Were any alarm and warning systems inoperative or missing parts? | | |
| Were Air Flow Alarms operating properly, was the alarm set point properly set, and was the alarm set point posted at the alarm panel? | | |
| (INSPI | ECT) ORDER/INDICATING | /METERING SYSTEMS |
| COMPONENT/SYSTEM | PROPOSED PROCEDURE | ACCEPTED PROCEDURE |
| Were Tank Level Indicators (TLI's) out of calibration or inoperative? Were valve position indicator | т | |
| circuits misadjusted or inoperative? | | |
| Were there missing or inoperative salinity cells? | | |

ELECTRICAL (EL) POST-UNDERWAY

AGER 2

| | AUTOMATIC BUS TRANSFER EQUIPMENT | | | |
|--|----------------------------------|-----------------------|-----------------------|--|
| COMPONENT/SYSTEM | | PROPOSED PROCEDURE | ACCEPTED PROCEDURE | |
| Test all Combat Systems ABTs during mast inspection. | | | | |
| OPEN AND INSPECT AS REQUIRED BY THE INSPECTIO | | | D BY THE INSPECTION | |

MAIN PROPULSION PRE-UNDERWAY PHASE AGER 2

2331 MAIN ENGINE Accepted Proposed Component/Sub-Component Procedure Procedure Inspect Engine Sump Level Inspect Turbocharger Sump Level Inspect Rocker Arm Sump Level Inspect Calibration and Indicators Test Blow In Damper Inspect Filters, Gaskets, and Frames Inspect Start Air Lubricator Oil Level Test Bypass and Waste Gate Operation Inspect Governor Lube Oil Level Inspect Lube Oil Sample Inspect J/W Expansion Tank Level Inspect Relief Valves Inspect for Exhaust Leaks Inspect Lube Oil Standby Pump Inspect Flange Shields Inspect J/W Standby Pump Inspect Zinc Anodes Test Lube Oil Sequencing Test Rocker Lube Oil Sequencing Test Prelube Pump Test Jacket Water High Temp Alarm Test Lube Oil Filter High DP Alarm

| 2331 | MAIN ENGINE | | |
|-------------------------------------|-------------------------------|-----------------------|-----------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedure |
| Test Remote Shuto | lown | | |
| Test Local Shutdo | wn | | |
| Test Low Lube Oi | l Shutdown | | |
| Test Low Start Air Alarm | | | |
| Test Local Pneumatic Start | | | |
| Test ASW Emergency Cooling | | | |
| Test Raw Water Alarm | | | |
| Test Barring Device | Test Barring Device Interlock | | |
| Test Low Control Air Pressure Alarm | | | |
| Test Overspeed Tr | Test Overspeed Trip | | |
| Inspect Governor a | and Fuel Linkage for Binding | 5 | |

| 2411 | REDUCTION GEARS | | |
|---|---------------------------|-----------------------|-----------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedure |
| Inspect Sump Leve | el and Lube Oil Condition | | |
| Inspect Gear Teeth, Lube Oil Spray Pattern, Casing Interior | | | |
| Inspect Attached LO Pump Angle Drive Gear | | | |
| Inspect Oil Flow in SFI's | | | |
| Inspect Temperature Gauges | | | |
| Inspect Casing Exterior | | | |
| Inspect Vent Fog I | Precipitator | | |
| Test Shaft Turning Gear and Locking Device | | | |
| Test Attached LO Pump Engage/Disengage | | | |
| Test Attached CRP/CPP Pump Engage/Disengage | | | |
| Test Propulsion Co | ontrol Interlocks | | |

| 2411 | REDUCTION GEARS | | |
|---|-----------------|-----------------------|-----------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedure |
| Test Clutch and Brake Interlocks | | | |
| Test Clutch and Brake Low Pressure Alarms | | | |
| Inspect Dehumidifier | | | |
| Inspect Security Devices | | | |
| Inspect Piping Systems | | | |
| Inspect Flange Shielding | | | |

| 2990 | LINE SHAFT BEARING | GS | |
|-------------------------|--------------------|-----------------------|-----------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedure |
| Inspect/Sample lu | be oil | | |
| Inspect Sump Dra | in Valve | | |
| Inspect Seals | | | |
| Inspect Thermome | eters | | |
| Inspect Lubricator | r | | |
| Inspect Dip Stick | Inspect Dip Stick | | |
| Inspect Lock Wire | es | | |
| Inspect Bearing D | Pepth Mic Surface | | |

| 2430 | STERN TUBE SEALS | | |
|-----------------------------------|------------------|-----------------------|-----------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedure |
| Gauges | | | |
| Cooling Water Piping | | | |
| Cooling Water Strainer/Filter | | | |
| Test Cooling Water Low Flow Alarm | | | |
| LP Air Supply | | | |

| 2430 | STERN TUBE SEALS | | |
|----------------------------|------------------|-----------------------|-----------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedure |
| LP Piping/Hoses/Fittings | | | |
| CO2/N2 Piping/Fitting | | | |
| Test Inflatable Seal | | | |
| Emergency Flax Packing Kit | | | |
| Backing Ring | | | |

| 2451 | 2451 CRP/CPP | | |
|--|-----------------------------|-----------------------|-----------------------|
| Compo | nent/Sub-Component | Proposed Procedure | Accepted Procedure |
| Inspect HOPM | | | |
| Inspect Flex Hoses | S | | |
| Inspect Piping | | | |
| Inspect Gages | | | |
| Inspect Flange Shi | elds | | |
| Inspect Sump Leve | el | | |
| Inspect Oil Condition | | | |
| Verify Calibration between Consoles and OD box | | K | |
| Test Slew Rate, Co | ommand Pitch Mismatch Alarn | n | |
| Test Emergency P | itch Pump | | |
| Inspect Attached C | CRP Pump | | |
| Inspect Mechanic | al Seal | | |
| Test Electric CRP | Test Electric CRP Pump | | |
| Inspect Motor, Pump | | | |
| Inspect Pump, Motor Driven | | | |
| Inspect Mechanical Seal | | | |
| Inspect Controller | , Motor | | |

| 2620 | LUBE OIL SYSTEMS | | |
|--|------------------|-----------------------|-----------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedure |
| Purifier | | | |
| - Test Purifier open | ration | | |
| - Inspect Motor, Pump | | | |
| - Inspect Heater | | | |
| - Inspect Motor Controller | | | |
| - Inspect Purifier | | | |
| Test MRG Lube Oil Sequencing | | | |
| Test MRG Electric Lube Oil Pump | | | |
| Test MRG Attached Lube Oil Pump | | | |
| Test /Inspect Lube Oil Strainer Baskets and Enclosures | | | |

| 2610 | FUEL OIL SYSTEMS | | |
|---------------------------------------|------------------|-----------------------|-----------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedure |
| Purifier | | | |
| - Test Purifier oper | ration | | |
| - Inspect Motor, Pt | ımp | | |
| - Test Pump, Fuel | Oil | | |
| - Inspect Motor Controller | | | |
| - Inspect Purifier | | | |
| Inspect Service Pump Motor Controller | | | |
| Test Service Pumps | | | |
| Test Fuel Oil Service Tanks for Water | | | |
| Test Service Tank Suction Valves | | | |
| Test Service Tank Recirc Valves | | | |
| Test Quick Closing Valves | | | |

| 2521 | CONTROLS | | |
|---|----------|-----------------------|-----------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedure |
| Test EOT Indicator | | | |
| Test EOCC Alarms and Indicators | | | |
| Test Eng LOSP Alarms and Indicators | | | |
| Test Propeller LOSP Alarms and Indicators | | | |
| Inspect Bell Logger | | | |
| Test EOT Wrong Direction Alarm | | | |
| Test Console Self-Checks | | | |
| Inspect Torsionometer and verify calibration data | | | |

| 1130 | HULL STRUCTURE | | |
|--|----------------|-----------------------|-----------------------|
| Component/Sub-Component | | Proposed Procedure | Accepted Procedure |
| Inspect Bilges/Angle Irons | | | |
| Inspect Deck Plates | | | |
| Inspect Equipment Foundations and resilient mounts | | | |
| Inspect Paint and Preservation | | | |
| Inspect Pipe Brackets/Hangers | | | |
| Inspect Lighting | | | |

| ICAS | | |
|--|-----------------------|-----------------------|
| Component/Sub-Component | Proposed Procedure | Accepted Procedure |
| Verify operational status of each workstation | ICAS Tech Manual | |
| Verify number of required portable data terminals (PDT) and that they are operational | ICAS Tech Manual | |
| Verify number of required portable diagnostic aids (PDA) and that they are operational | ICAS Tech Manual | |
| Are any critical system errors shown in the system log? | ICAS Tech Manual | |
| Ensure data for at least two routes from actual rounds | ICAS Tech Manual | |
| Ensure data from Data Acquisition devices is being received as required | ICAS Tech Manual | |
| Verify Demand Data is received and processed accurately | ICAS Tech Manual | |
| Verify database data is received and processed accurately | ICAS Tech Manual | |
| Ensure router connections are operating properly | ICAS Tech Manual | |
| Ensure remote demand data and database data are available to be viewed. | ICAS Tech Manual | |
| Verify all required system links are available | ICAS Tech Manual | |
| Verify all ICAS printers are operational | ICAS Tech Manual | |
| Verify picture book is available for vibration checks | ICAS Tech Manual | |
| Verify vibration data is being taken per PMS | ICAS Tech Manual | |
| Verify vibration disc are installed on all equipment | ICAS Tech Manual | |
| Conduct vibration surveys on selected equipment during the full power demonstration | ICAS Tech Manual | |
| Inspect all cabinet air filters | MIP 2020 (M-3) | |
| Inspect all ICAS computer equipment | MIP 2020 (A-1R) | |
| Inspect computer internal shocks and fans | MIP 2020 (M-3) | |

MAIN PROPULSION UNDERWAY PHASE AGER 2

| | TEAM ARRIVAL | | |
|--|---------------------|-----------------------|-----------------------|
| Compe | onent/Sub-Component | Proposed Procedure | Accepted Procedure |
| Check applicable equipment for correction of deficiencies. | | | |
| Tour space, ensure ready for sea. | | | |

| DEMONSTRATIONS | | |
|---|-----------------------------|-----------------------|
| Component/Sub-Component | Proposed Procedure | Accepted Procedure |
| Demonstrate Full Power ahead (1 hour) | PMS/EOSS/POG/ 9094.1B | |
| Demonstrate Quick Reversal Astern | POG/Full Power Memo/EOSS | |
| Demonstrate Quick Reversal Ahead | POG/Full Power Memo/EOSS | |
| Demonstrate fuel oil purifier (s) operation | EOSS/PMS | |
| Demonstrate purifier (s)emergency stop capability | EOSS/PMS/Tech manual | |